

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Previously Presented): Method of uptaking, or storing, or releasing, or uptaking and storing, or uptaking and releasing, or storing and releasing or uptaking, storing and releasing at least one gas wherein the gas is uptaken, or stored, or released, or uptaken and stored, or uptaken and released, or stored and released or uptaken, stored and released by an agent comprising a metallo-organic framework material comprising pores and at least one metal ion and at least one at least bidentate organic compound, which is bound to said metal ion;

wherein the metallo organic framework material comprising pores exhibits a specific surface area, as determined via adsorption (BET according to DIN 66131) of larger than 2000 m²/g.

Claim 2 (Previously Presented): Method according to claim 1, wherein the gas comprises at least one of the gases among the group consisting of hydrogen, nitrogen, a noble gas, CO, CO₂, and compounds generating and/or delivering these gases.

Claim 3 (Previously Presented): Method according to claim 2, wherein the gas is selected from the group consisting of hydrogen, a gas mixture comprising hydrogen, a hydrogen generating or delivering substance, a gas mixture comprising at least one hydrogen generating and/or delivering substance, and combinations thereof.

Claim 4 (Previously Presented): Method according to claim 1, wherein the metal ion is selected among ions of elements of groups Ia, IIa, IIIa, IVa to VIIIa and Ib to VIb of the periodic table of the elements.

Claim 5 (Previously Presented): Method according to claim 1, further comprising contacting the metallo-organic framework material with at least one capacity-enhancing agent selected from the group consisting of a solvent, a complex, a metal, a metal hydride, a metal alloy, and mixtures of two or more thereof.

Claim 6 (Previously Presented): Method according to claim 1, wherein the bidentate organic compound is selected among substituted or unsubstituted aromatic polycarboxylic acids, which may comprise one or more nuclei; and substituted or unsubstituted aromatic polycarboxylic acids, which comprise at least one hetero-atom and which may have one or more nuclei.

Claim 7 (Canceled).

Claim 8 (Previously Presented): Device for uptaking, or storing, or releasing, or uptaking and storing, or uptaking and releasing, or storing and releasing, or uptaking, storing and releasing at least one gas, comprising a metallo-organic framework material, as claimed in claim 1.

Claim 9 (Previously Presented): Device according to claim 8, further comprising a container comprising the metallo-organic framework material; an entrance/exit opening for allowing the at least one gas to enter or exit the device; a gas-tight maintaining mechanism capable of maintaining the gas under pressure inside the container.

Claim 10 (Previously Presented): Fuel cell comprising the agent according to claim 1.

Claim 11 (Currently Amended): Method of using an agent comprising a metallo-organic framework material comprising pores and at least one metal ion and at least one at least bidentate organic compound, which is bound to said metal ion;

wherein said using comprises uptaking, or storing, or releasing, or uptaking and storing, or uptaking and releasing, or storing and releasing or uptaking, storing and releasing at least one gas in at least one of a stationary application, a mobile application, or a mobile portable application; and

wherein the metallo organic framework material comprising pores exhibits a specific surface area, as determined via adsorption (BET according to DIN 66131) of larger than 2000 m²/g.

Claim 12 (Previously Presented): Method of using according to claim 11, wherein at least one application is selected from the group consisting of a power plant, a car, a truck, a bus, a cell phone, a laptop, and combinations thereof.

Claim 13 (Previously Presented): Method of using a device according to claim 8, wherein said using comprises:

supplying power to an application selected from the group consisting of a power plant, a car, a truck, a bus, a cell phone, a laptop, and combinations thereof.

Claim 14 (Previously Presented): Method of using the fuel cell according to claim 10, wherein said using comprises:

supplying power to an application selected from the group consisting of a power plant, a car, a truck, a bus, a cell phone, a laptop, and combinations thereof.

Claim 15 (Previously Presented): The method according to claim 1, wherein at least one at least bidentate organic compound is coordinately bound to said metal ion.

Claim 16 (Previously Presented): The method of using according to claim 11, wherein at least one at least bidentate organic compound is coordinately bound to said metal ion.